

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39588

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61B 17/08 US CL : 606/213 According to International Patent Classification (IPC) or to both national classification and IPC																				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 606/213,151,185,151; 128/887 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST-hemosta\$, plug, pledget, mass, puncture, hole, aperture, seal, vessel, artery																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2003/0120291 A1 (CHIN, et al.) 26 JUNE 2003 (26.06.2003), FIGURE 16 AND 17 AND ACCOMPANYING DESCRIPTION</td> <td>1-3,5-9,14-16,18,20,21 and 50-57</td> </tr> <tr> <td>Y</td> <td></td> <td>----- 11</td> </tr> <tr> <td>A</td> <td>US 5,250,071 A (PALERMO) 05 OCTOBER 1993 (05.10.1993)</td> <td>1-58</td> </tr> <tr> <td>X</td> <td>US 5,021,059 A (KENSEY, et al.) 04 JUNE 1991 (04.06.1991), SEE FIGS. 7-12</td> <td>1,2,5,6,8-10,12,14,16,18,20-23,50-54,56 AND 57</td> </tr> <tr> <td>X</td> <td>US 5,342,393 A (STACK) 30 AUGUST 1994 (30.08.1994), SEE FIGS. 2-6; COL. 2 LINES 53-60 AND COL. 4 LINES 23-57.</td> <td>1-3,5-8,14-16,18,34-36,40-42,50-53 AND 58</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2003/0120291 A1 (CHIN, et al.) 26 JUNE 2003 (26.06.2003), FIGURE 16 AND 17 AND ACCOMPANYING DESCRIPTION	1-3,5-9,14-16,18,20,21 and 50-57	Y		----- 11	A	US 5,250,071 A (PALERMO) 05 OCTOBER 1993 (05.10.1993)	1-58	X	US 5,021,059 A (KENSEY, et al.) 04 JUNE 1991 (04.06.1991), SEE FIGS. 7-12	1,2,5,6,8-10,12,14,16,18,20-23,50-54,56 AND 57	X	US 5,342,393 A (STACK) 30 AUGUST 1994 (30.08.1994), SEE FIGS. 2-6; COL. 2 LINES 53-60 AND COL. 4 LINES 23-57.	1-3,5-8,14-16,18,34-36,40-42,50-53 AND 58
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																				
<table border="0"> <tr> <td colspan="2"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family															
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Date of the actual completion of the international search 06 September 2005 (06.09.2005)		Date of mailing of the international search report 13 OCT 2005																		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer For: Glenn K. Dawson Telephone No. 703-308-0858 MONICA A. GRAVES																		